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Monthly Engineering Report No. 9

Improvement of Wide-Band FM Radar
Detection Techniques

Period Covered: 1 June 1961 to 30 June 1961

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General Comments

This report covers the ninth period of contract activity for improvement of radar detection techniques.

The job has been staffed technically by two Senior Engineers, five Engineers, and one part-time technician. Design and fabrication has been the principal effort of the period.

Activities of the Report Period

Testing of the focusing antenna has been completed with the dual feeds and is virtually complete with the single feed. The associated mount and scanning structure is currently being assembled. Upon completion of the mechanism, RF components will be installed and integrated.

Delivery of the transformers to be used in the RF swept power supply has been delayed and are expected early in the succeeding month. The wiring is virtually complete and test will begin immediately upon receipt of the transformers.

The gated tuning-fork filters have been shipped by the Vendor but have not been received. Upon receipt the units will be tested and installed. Design and fabrication of the remaining digital and analysis circuitry has been completed.

The HA-49D traveling wave tube has been received. The manufacturer has failed to meet the specifications established and the translation capability is seriously impaired. It is anticipated that the tube will be rejected and re-order will be effected from another Vendor.

Circuitry for the intermediate frequencies, filters and AGC are approximately 60% complete. Final completion during the next report period is anticipated.

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Program for the Ensuing Period

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The principal work of the next period will be that of assembly and circuit integration. The remaining design work will be concluded,

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